

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111020\  
 Data File : VL035895.D  
 Acq On : 10 Nov 2020 19:08  
 Operator : SY/AP  
 Sample : L4618-02DL2 100X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Nov 11 01:24:00 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Nov 04 02:40:06 2020  
 QLast Update : Wed Nov 04 02:40:06 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1119496  | 10.00 | ppbv  | -0.01    |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 4085817  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 3870226  | 10.00 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 2816300  | 10.24    | ppbv | -0.02   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.40% |

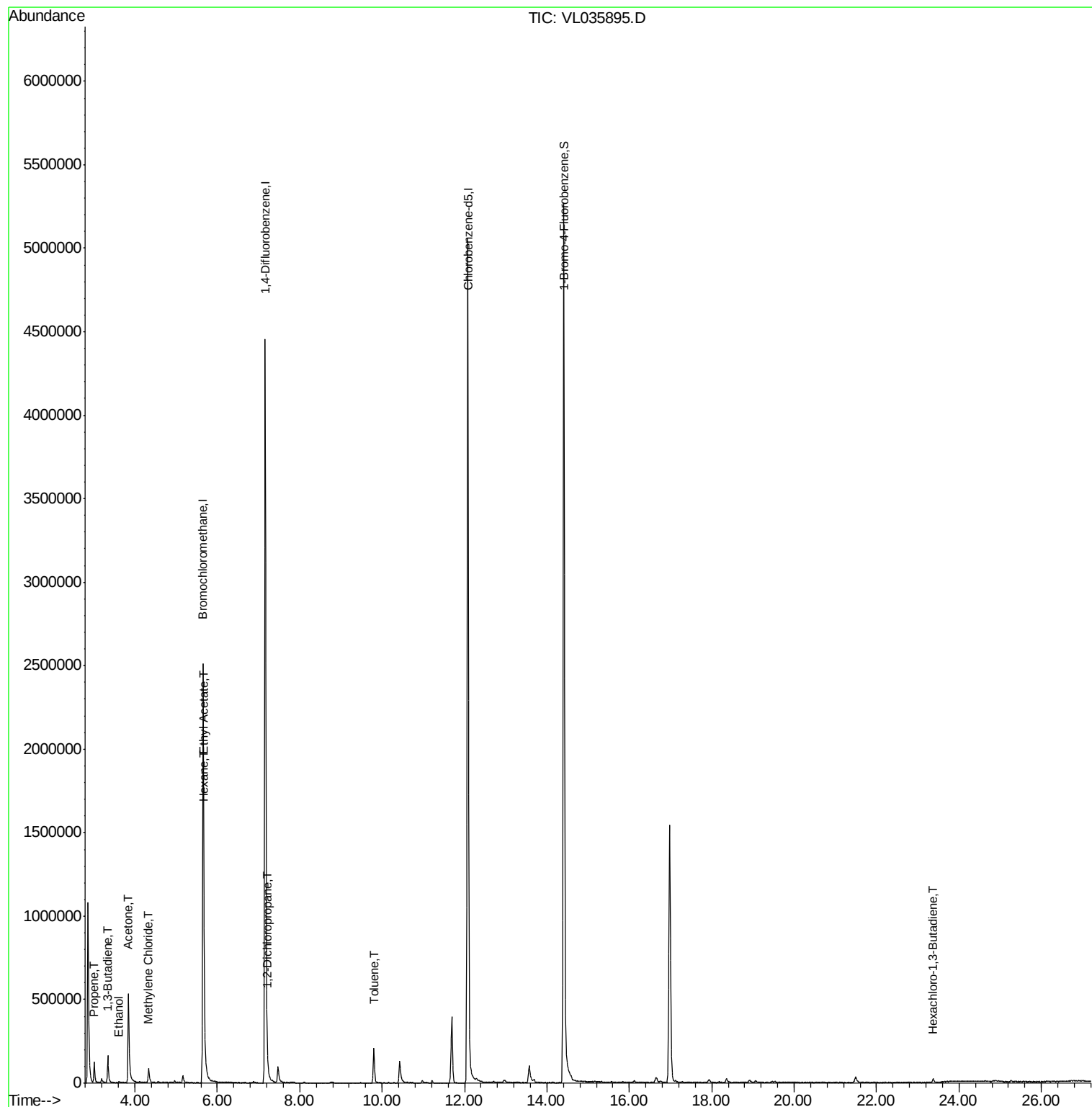
| Target Compounds             | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|------------------------------|-------|------|----------|-------|--------|--------|
| 9) Propene                   | 3.01  | 41   | 37257    | 0.759 | ppbv # | 75     |
| 13) Ethanol                  | 3.60  | 45   | 1806     | 0.170 | ppbv # | 35     |
| 15) Acetone                  | 3.84  | 43   | 729653   | 6.096 | ppbv   | 99     |
| 16) 1,3-Butadiene            | 3.34  | 39   | 21273    | 0.413 | ppbv # | 1      |
| 20) Methylene Chloride       | 4.33  | 84   | 45350    | 0.538 | ppbv   | 98     |
| 25) Ethyl Acetate            | 5.68  | 43   | 9032     | 0.038 | ppbv # | 83     |
| 26) Hexane                   | 5.68  | 57   | 5215     | 0.040 | ppbv # | 57     |
| 39) 1,2-Dichloropropane      | 7.22  | 63   | 10659    | 0.104 | ppbv # | 31     |
| 53) Toluene                  | 9.80  | 91   | 193388   | 0.528 | ppbv   | 95     |
| 78) Hexachloro-1,3-Butadiene | 23.38 | 225  | 4306     | 0.032 | ppbv # | 73     |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :

Quant Time: Nov 11 01:24:00 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Nov 04 02:40:06 2020  
QLast Update : Wed Nov 04 02:40:06 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL035895.D

Acq: 10 Nov 2020 19:08

Instrument :

MSVOA\_L

ClientSampleId :

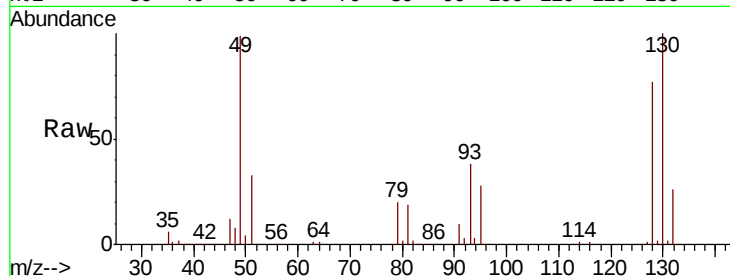
Tot Ion: 49 Resp: 1119496

Ion Ratio Lower Upper

49 100

128 79.6 41.5 124.6

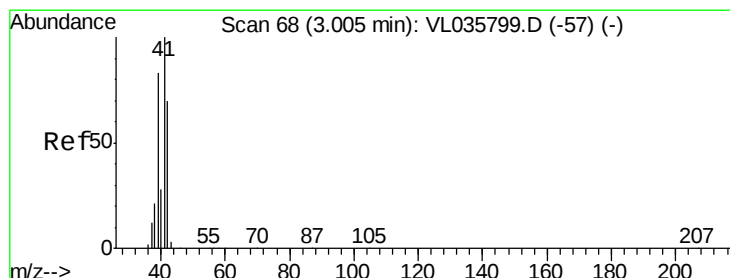
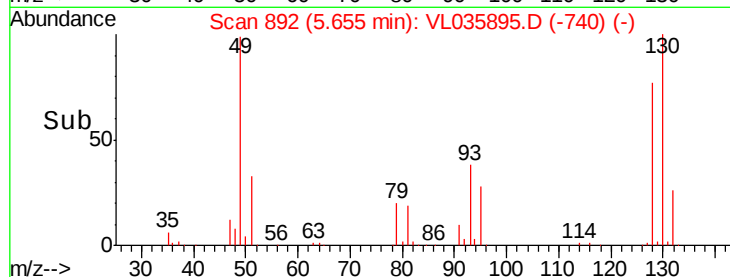
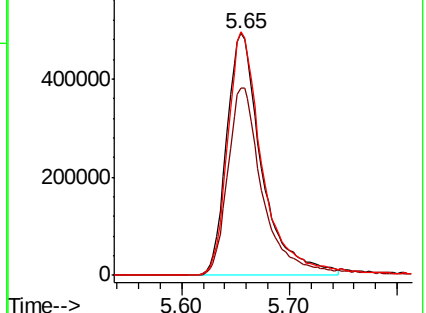
130 101.6 53.7 161.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 0.759 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL035895.D

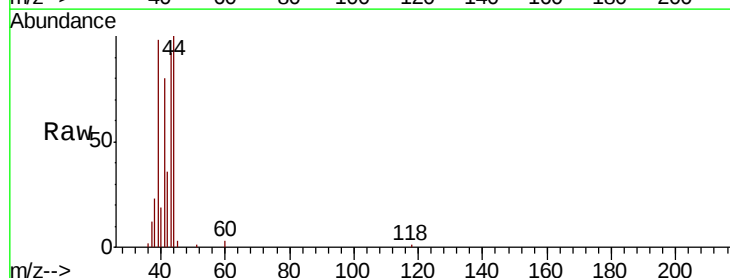
Acq: 10 Nov 2020 19:08

Tgt Ion: 41 Resp: 37257

Ion Ratio Lower Upper

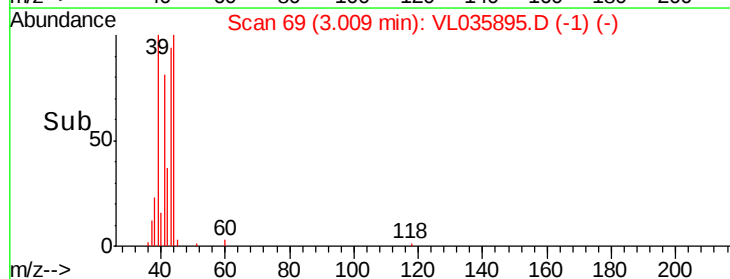
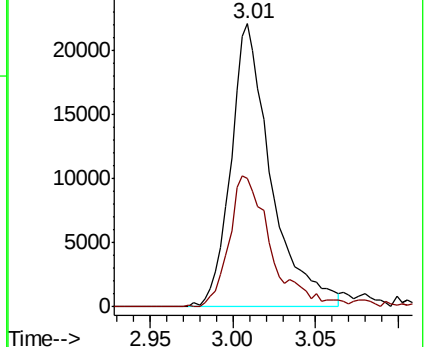
41 100

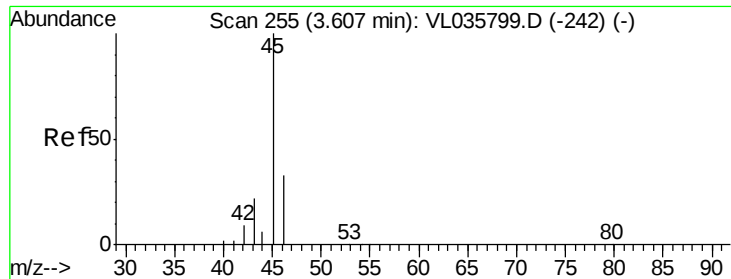
42 49.7 56.2 84.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 0.170 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL035895.D

Acq: 10 Nov 2020 19:08

Instrument :

MSVOA\_L

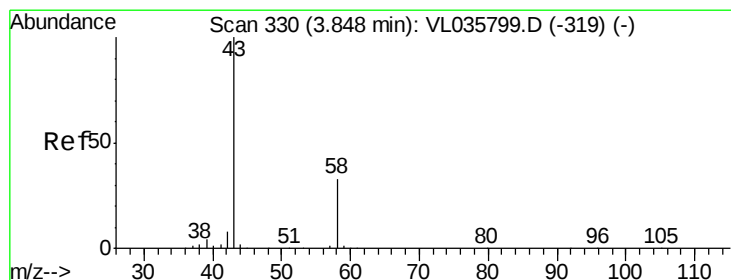
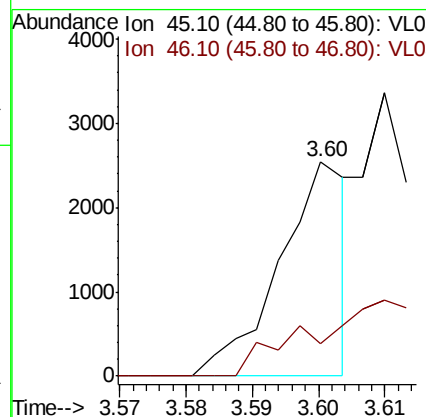
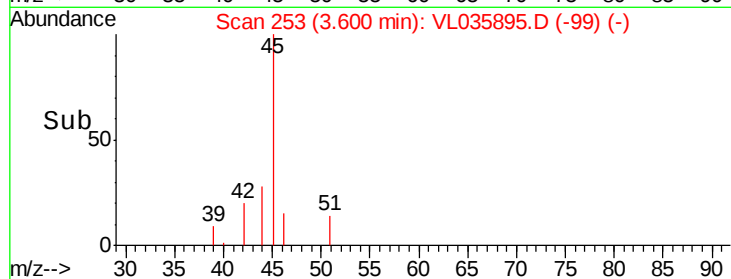
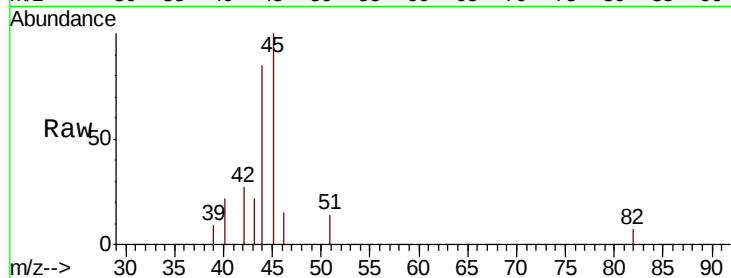
ClientSampleId :

Tot Ion: 45 Resp: 1806

Ion Ratio Lower Upper

45 100

46 0.0 16.1 64.5#



#15

Acetone

Concen: 6.096 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL035895.D

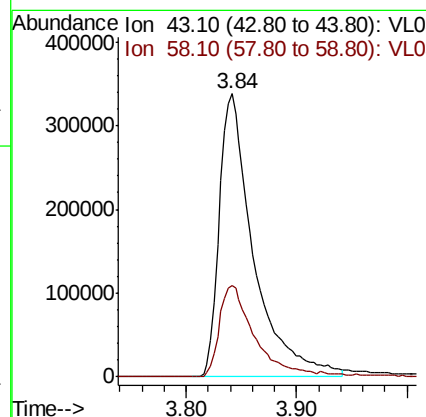
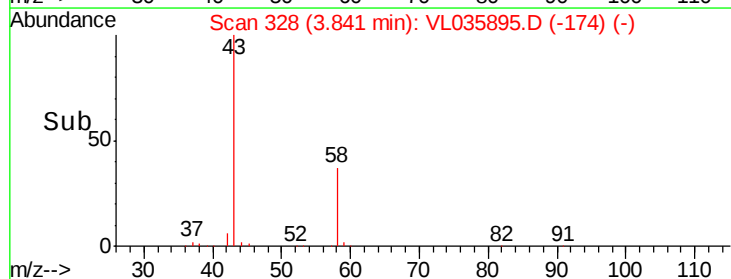
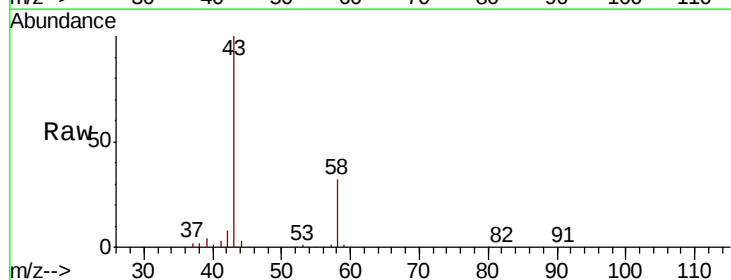
Acq: 10 Nov 2020 19:08

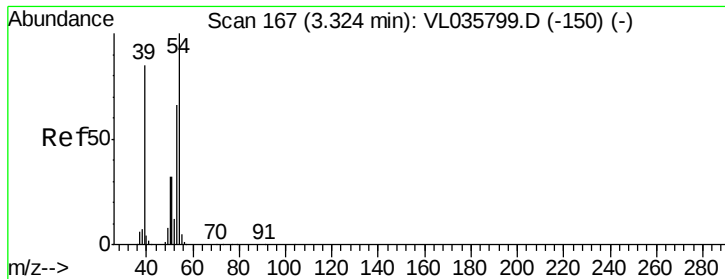
Tgt Ion: 43 Resp: 729653

Ion Ratio Lower Upper

43 100

58 34.7 27.5 41.3





#16

1,3-Butadiene

Concen: 0.413 ppbv

RT: 3.34 min Scan# 173

Delta R.T. 0.02 min

Lab File: VL035895.D

Acq: 10 Nov 2020 19:08

Instrument :

MSVOA\_L

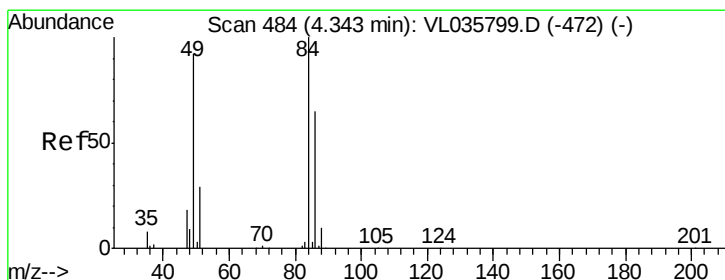
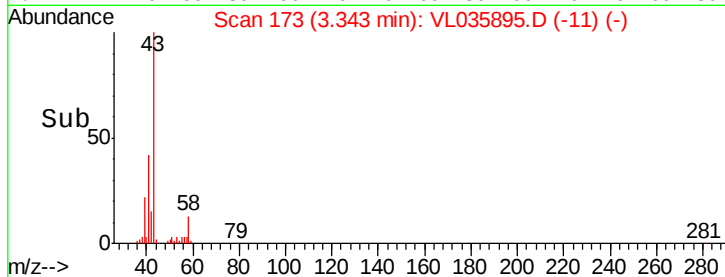
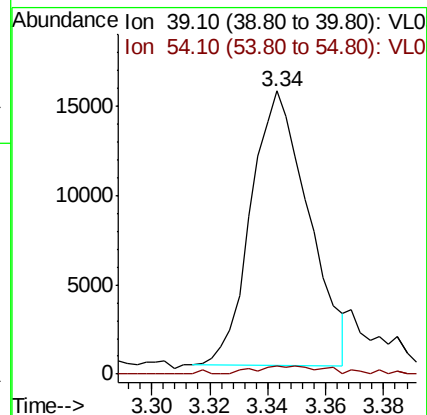
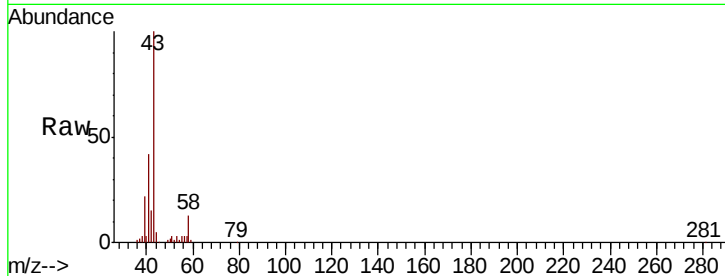
ClientSampleId :

Tot Ion: 39 Resp: 21273

Ion Ratio Lower Upper

39 100

54 4.1 87.1 130.7#



#20

Methylene Chloride

Concen: 0.538 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.01 min

Lab File: VL035895.D

Acq: 10 Nov 2020 19:08

Tgt Ion: 84 Resp: 45350

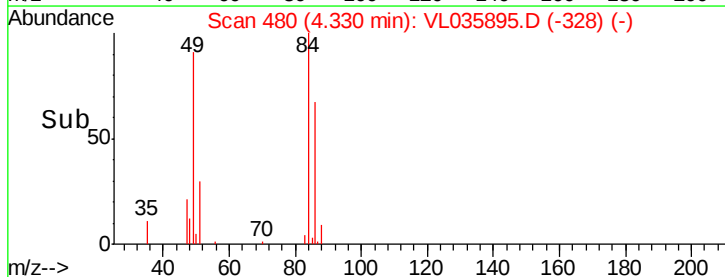
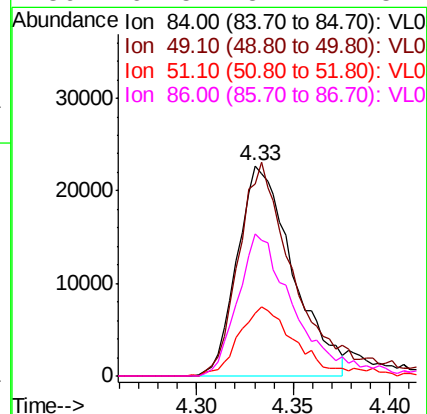
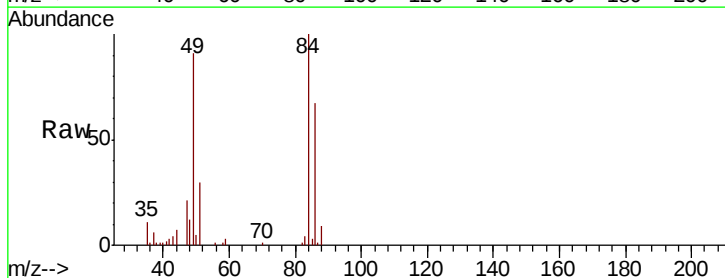
Ion Ratio Lower Upper

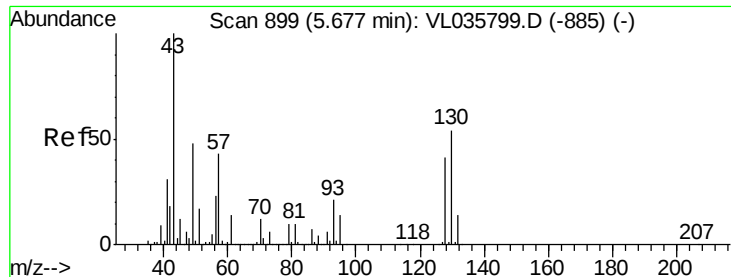
84 100

49 91.2 73.8 110.8

51 29.3 23.0 34.4

86 67.5 52.1 78.1





#25

Ethyl Acetate

Concen: 0.038 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.00 min

Lab File: VL035895.D

Acq: 10 Nov 2020 19:08

Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion: 43 Resp: 9032

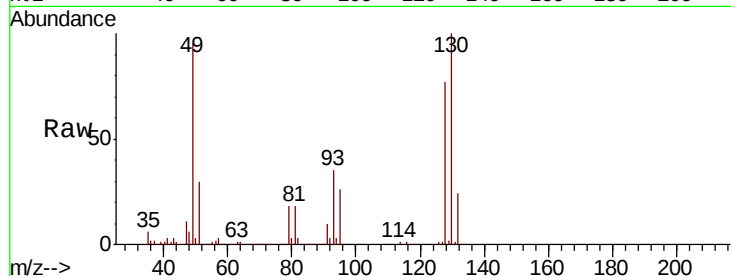
Ion Ratio Lower Upper

43 100

45 7.9 8.5 12.7#

61 4.6 10.7 16.1#

70 2.5 8.6 12.8#

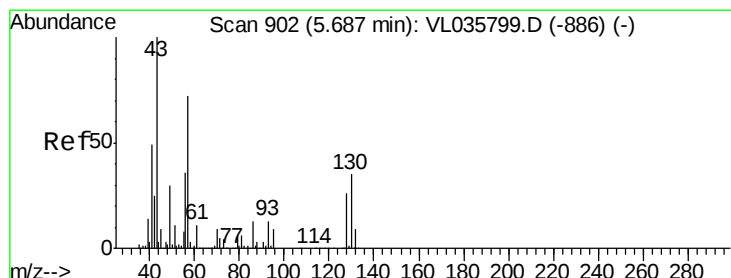
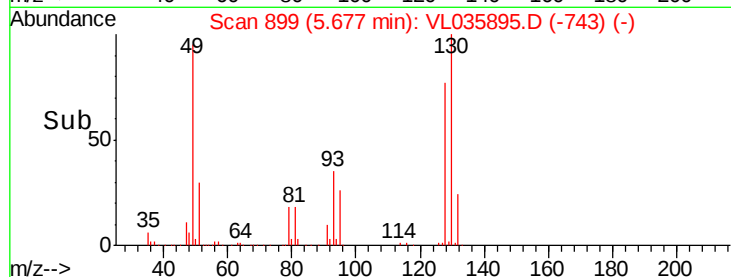
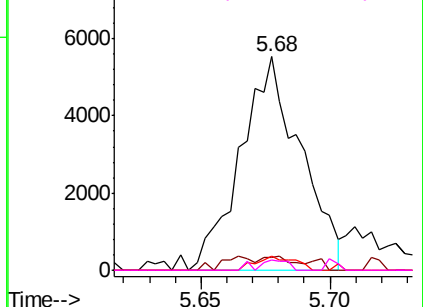


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.040 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.01 min

Lab File: VL035895.D

Acq: 10 Nov 2020 19:08

Tgt Ion: 57 Resp: 5215

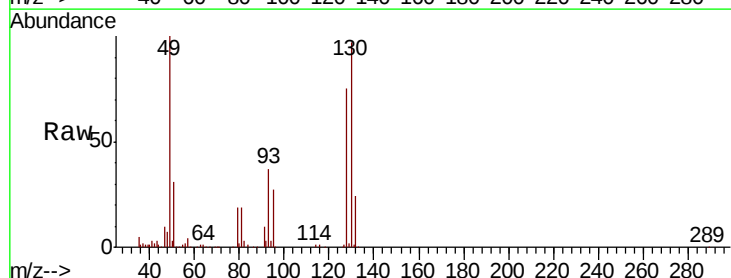
Ion Ratio Lower Upper

57 100

41 0.0 58.9 88.3#

43 211.8 150.2 225.2

56 0.0 42.4 63.6#

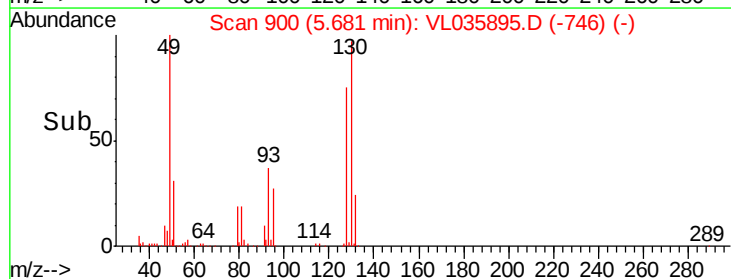
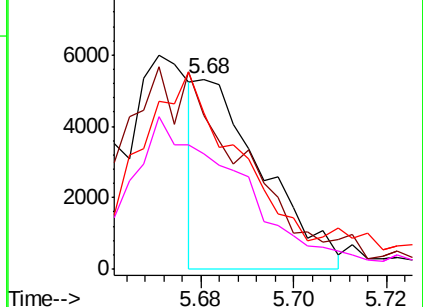


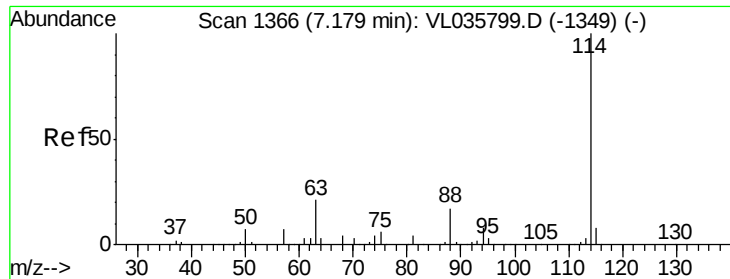
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

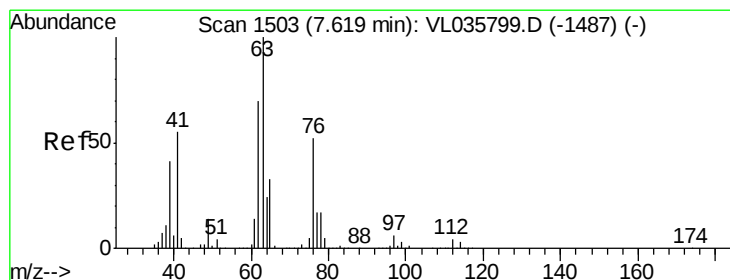
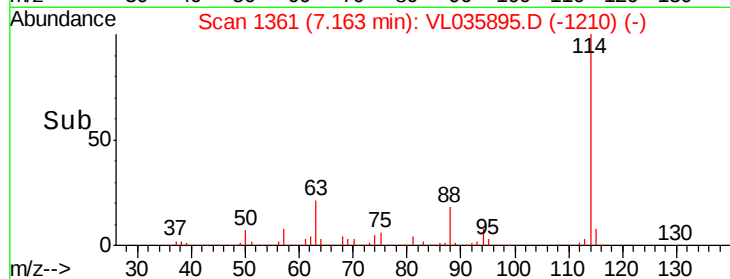
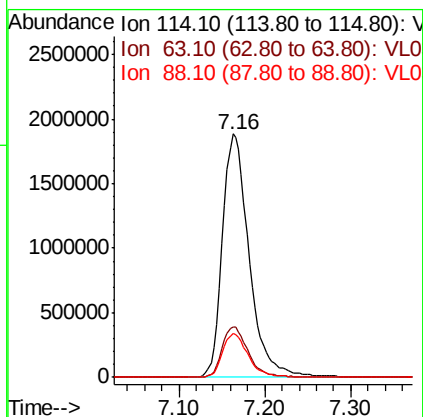
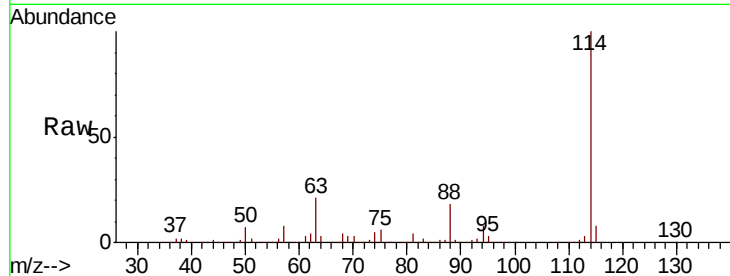




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.16 min Scan# 1361  
 Delta R.T. -0.02 min  
 Lab File: VL035895.D  
 Acq: 10 Nov 2020 19:08

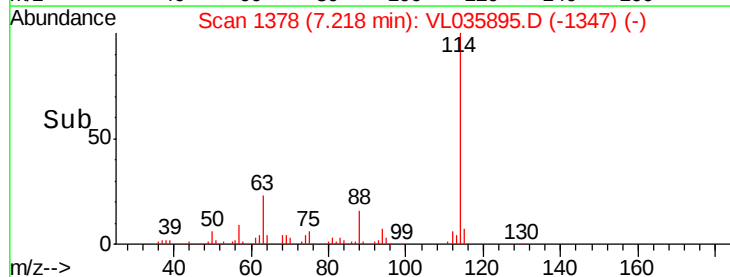
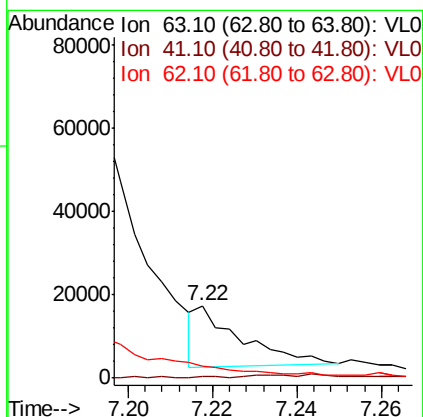
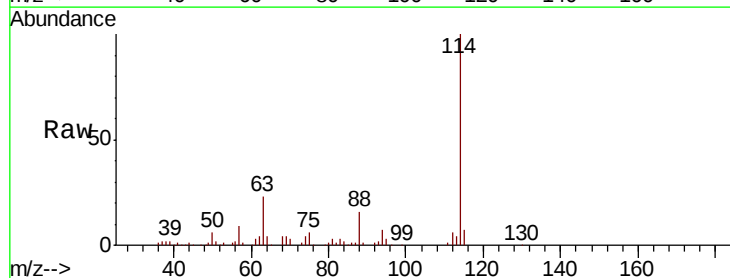
Instrument :  
 MSVOA\_L  
 ClientSampleId :

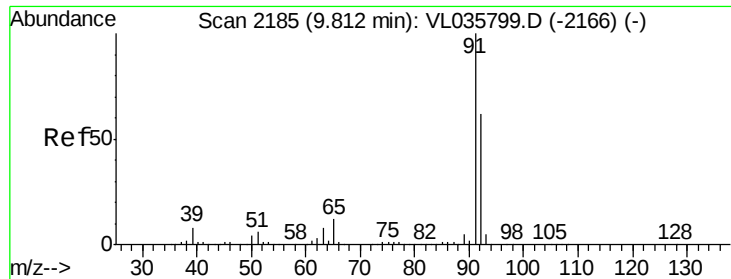
Tot Ion:114 Resp: 4085817  
 Ion Ratio Lower Upper  
 114 100  
 63 20.5 16.1 24.1  
 88 17.5 13.7 20.5



#39  
 1,2-Dichloropropane  
 Concen: 0.104 ppbv  
 RT: 7.22 min Scan# 1378  
 Delta R.T. -0.40 min  
 Lab File: VL035895.D  
 Acq: 10 Nov 2020 19:08

Tgt Ion: 63 Resp: 10659  
 Ion Ratio Lower Upper  
 63 100  
 41 3.1 43.8 65.6#  
 62 15.2 56.2 84.2#





#53

Toluene

Concen: 0.528 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL035895.D

Acq: 10 Nov 2020 19:08

Instrument :

MSVOA\_L

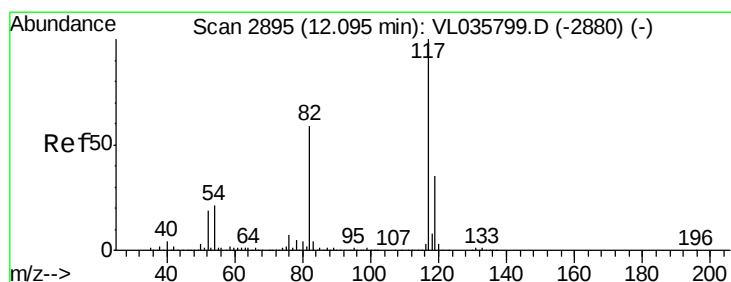
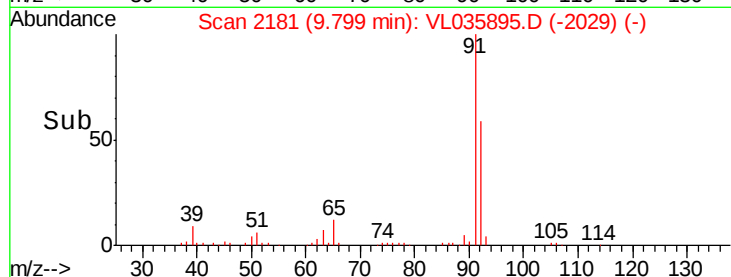
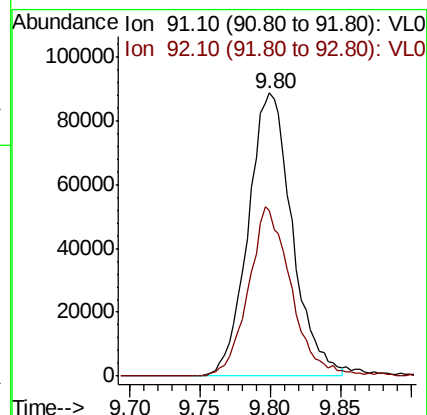
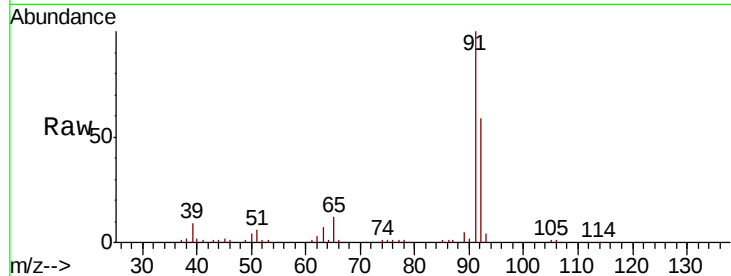
ClientSampleId :

Tot Ion: 91 Resp: 193388

Ion Ratio Lower Upper

91 100

92 58.3 49.8 74.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.02 min

Lab File: VL035895.D

Acq: 10 Nov 2020 19:08

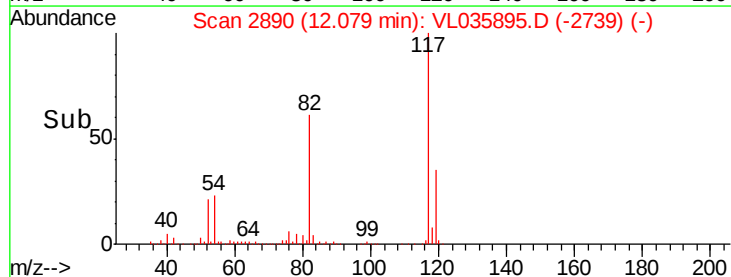
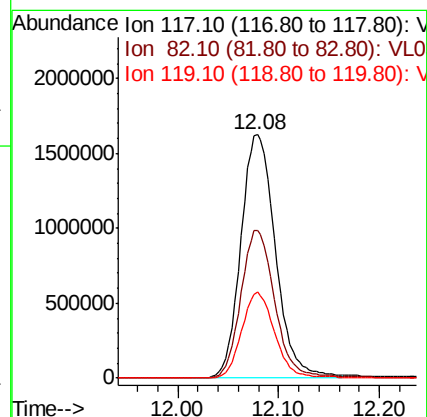
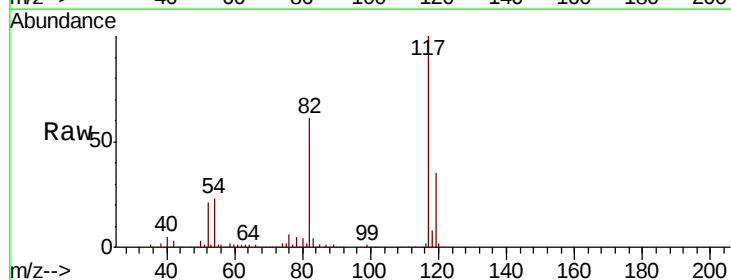
Tgt Ion: 117 Resp: 3870226

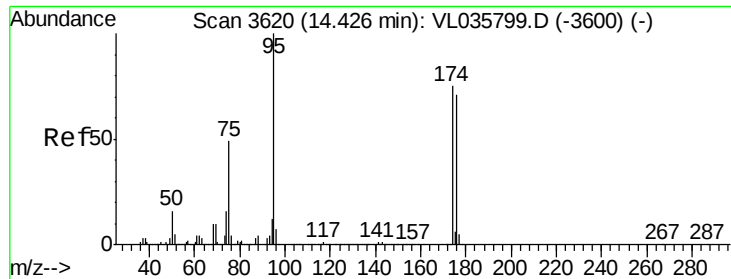
Ion Ratio Lower Upper

117 100

82 60.7 50.6 76.0

119 34.2 52.6 78.8#

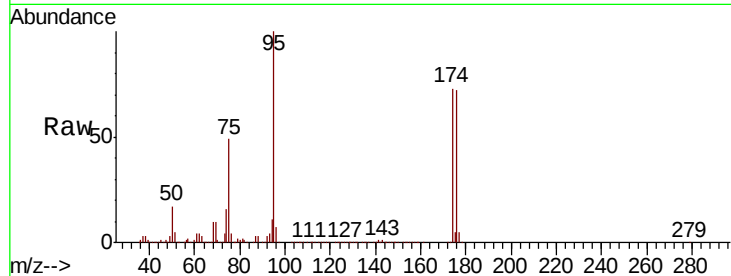




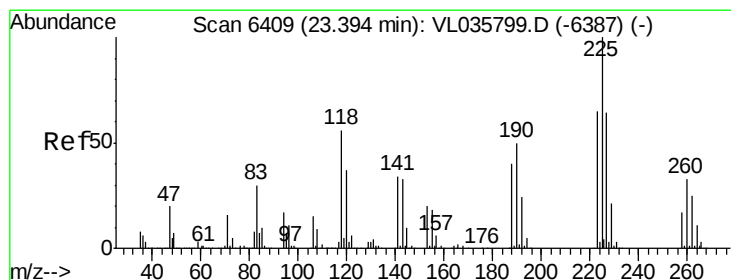
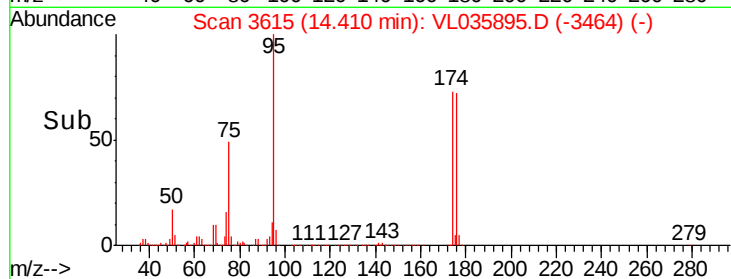
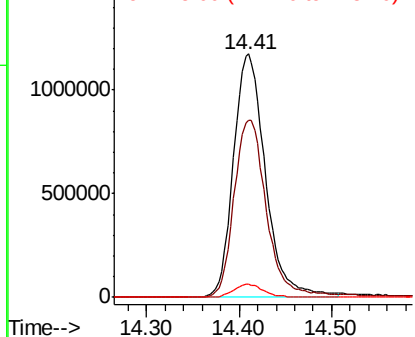
#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.242 ppbv  
 RT: 14.41 min Scan# 3615  
 Delta R.T. -0.02 min  
 Lab File: VL035895.D  
 Acq: 10 Nov 2020 19:08

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion: 95 Resp: 2816300  
 Ion Ratio Lower Upper  
 95 100  
 174 75.6 59.8 89.6  
 175 5.3 4.3 6.5

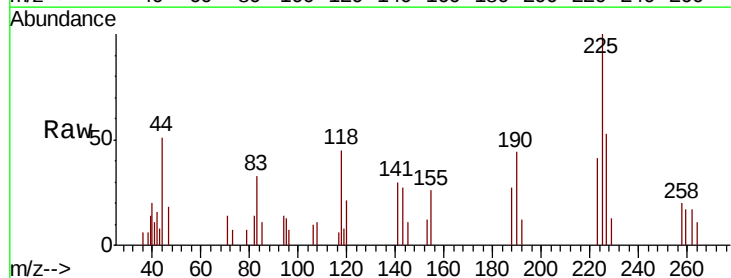


Abundance Ion 95.10 (94.80 to 95.80): VL0  
 Ion 174.00 (173.70 to 174.70): V  
 Ion 175.00 (174.70 to 175.70): V



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 0.032 ppbv  
 RT: 23.38 min Scan# 6405  
 Delta R.T. -0.01 min  
 Lab File: VL035895.D  
 Acq: 10 Nov 2020 19:08

Tgt Ion: 225 Resp: 4306  
 Ion Ratio Lower Upper  
 225 100  
 223 79.9 51.0 76.6#  
 227 90.4 51.2 76.8#



Abundance Ion 224.90 (224.60 to 225.60): V  
 Ion 222.90 (222.60 to 223.60): V  
 Ion 226.90 (226.60 to 227.60): V

